UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION
Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203
Laman :fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Education in Science **MODULE HANDBOOK**

Module name:	Earth Science
Module level, if applicable:	Undergraduate
Code:	IPA6222
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	3rd (third)
Module coordinator:	Joko Sudomo, M.A,
Lecturer(s):	Widodo Setiyo Wibowo, M.Pd, Drs. Al. Maryanto, M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures and 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 (3 ETCS)
Prerequisites course(s):	-
Targeted learning outcomes:	After accomplishing this course students are able to: CO1. show independency and responsibility in carrying out individual tasks and group assignments CO2. use knowledge systematically in solving problems related to earth science phenomena in daily life CO3. understand basic concept of earth's surface and interior as well as various changes occurred on surface and inside earth, earth history, geological age measurement, earth in the past, atmosphere and energy, weather, water and climate, and water on earth (hydrosphere).
Content:	This course contains basic concepts of earth's surface and interior as well as various changes occurred on surface and inside earth, earth history, geological age measurement, earth in the past, atmosphere and energy, weather, water and

<table>
<tr><td></td><td>climate, and water on earth (hydrosphere).</td></tr>
<tr><td>Study/exam achievements:</td><td>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:

<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1, CO2 and CO3</td><td>a. Individual Assignment
b. Group Assignment
c. Mid
d. Final Exam</td><td>Project and written test</td><td>20%

20%
30%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>A. Team of Earth Science. (2018). Earth Science Practicum Guidance. Yogyakarta: FMIPA UNY.
B. Marsha Barber and Kelly S Kissamis, 1990, Earth Science, USA, Glenview, Illinois: Scott, Foresman and Company.
C. Teacher Resources for Practice and Support, The Restless Earth, 2004, New York: McGraw-Hill School Division.
D. CPO Focus on Earth Science First Edition. (2007). Delta Education LLC. Nashua, New Hampshire.
E. Mcguire, Thomas.(2005). Earth ScienceThe Physical Setting. AMSCO SCHOOL PUBLICATIONS, INC. New York.</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2										✓		
CO3				✓	✓	✓	✓					